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Selma Boumerdassi · Éric Renault ·
Paul Mühlethaler (Eds.)

Machine Learning for Networking

Second IFIP TC 6 International Conference, MLN 2019
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Revised Selected Papers

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Preface

The rapid development of new network infrastructures and services has led to the generation of huge amounts of data, and machine learning now appears to be the best solution to process these data and make the right decisions for network management. The International Conference on Machine Learning for Networking (MLN) aims to provide a top forum for researchers and practitioners to present and discuss new trends in deep and reinforcement learning; pattern recognition and classification for networks; machine learning for network slicing optimization; 5G systems; user behavior prediction; multimedia; IoT; security and protection; optimization and new innovative machine learning methods; performance analysis of machine learning algorithms; experimental evaluations of machine learning; data mining in heterogeneous networks; distributed and decentralized machine learning algorithms; intelligent cloud-support communications; resource allocation; energy-aware communications; software defined networks; cooperative networks; positioning and navigation systems; as well as wireless communications; wireless sensor networks, and underwater sensor networks. In 2019, MLN was hosted by Inria Paris, a top-level research center in France.

The call for papers resulted in a total of 75 submissions from all around the world: Algeria, Canada, Chile, China, Colombia, Ecuador, France, Honduras, India, Ireland, Japan, Lebanon, Mauritius, Morocco, Norway, Peru, Portugal, Saudi Arabia, Senegal, Serbia, Singapore, South Africa, South Korea, Spain, Sri Lanka, Tunisia, the UK, and the USA. All submissions were assigned to at least three members of the Program Committee for review. The Program Committee decided to accept 26 papers. There were two intriguing keynotes by Jean-Claude Belfiore, Huawei, France, and Alberto Conte, NOKIA Bell Labs, France; two tutorials: the first one by Franck Gaillard, Microsoft, France, and the second one by Marie Line Alberi Morel, NOKIA Bell Lab, France; and a talk by? Kamal Singh, Télécom Saint-Etienne/Jean Monnet University, France, which completed the technical program.

We would like to thank all who contributed to the success of this conference, in particular the members of the Program Committee and the reviewers for carefully reviewing the contributions and selecting a high-quality program. Our special thanks go to the members of the Organizing Committee for their great help.

Thursday morning was dedicated to the Second International Workshop on Networking for Smart Living (NSL 2019). The technical program of NSL included five presentations and a keynote by Kevin Curran, Ulster University, UK.

We hope that all participants enjoyed this successful conference, made many new contacts, engaged in fruitful discussions, and had a pleasant stay in Paris, France.

December 2019

Paul Mühlethaler
Éric Renault

Organization

MLN 2019 was jointly organized by the EVA Project of Inria Paris, the Wireless Networks and Multimedia Services (RS2M) Department of Télécom SudParis (TSP), a member of Institut Mines-Télécom (IMT) and University Paris-Saclay, ESIEE Paris, and CNAM Paris.

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